

Title (en)

NON-SLIDING AND NON-SUTURED CONTACT LENS SYSTEM FOR OPHTHALMIC PROCEDURES

Title (de)

KONTAKTLOSES UND UNGENÄHTES KONTAKTLINSENSYSTEM FÜR OPHTHALMOLOGISCHE VERFAHREN

Title (fr)

SYSTÈME DE LENTILLE DE CONTACT NON GLISSANTE ET NON SUTURÉE POUR PROCÉDURES OPHTALMIQUES

Publication

EP 3449308 A4 20200325 (EN)

Application

EP 17790332 A 20170426

Priority

- US 201662329292 P 20160429
- US 2017029606 W 20170426

Abstract (en)

[origin: US2017311801A1] A non-sliding, non-sutured hands-free contact lens assembly for ophthalmic procedures utilizes a number of microstructures strategically placed on the bottom of either the contact lens or the bottom of a contact lens holder ring. After the contact lens, or the contact lens assembled with the contact lens holder ring, is placed on the cornea of the eye and centered, a surgeon applies downward pressure either on the contact lens itself or on the lens holder ring. This secures the lens assembly to the cornea due to increased friction between the microstructures and the tissues of the eye when the microstructures penetrate through the tear film and, optionally, viscous solution film and into the contact with superficial layer of cornea or other parts of the eye, thus temporarily anchoring the contact lens, or lens holder, to the desired surgical site.

IPC 8 full level

G02C 7/00 (2006.01); **A61B 3/117** (2006.01); **A61B 17/02** (2006.01); **A61F 9/00** (2006.01); **A61F 9/009** (2006.01); **G02C 7/02** (2006.01); **G02C 7/04** (2006.01)

CPC (source: EP US)

A61B 3/117 (2013.01 - EP US); **A61B 3/125** (2013.01 - US); **A61B 17/0231** (2013.01 - EP US); **A61F 9/00** (2013.01 - EP US); **A61F 9/009** (2013.01 - EP); **G02C 7/04** (2013.01 - US); **A61B 2017/00946** (2013.01 - US); **A61F 2009/0052** (2013.01 - EP US)

Citation (search report)

- [A] US 2012099077 A1 20120426 - ABT NIELS A [CH]
- [XY] EP 2945010 A1 20151118 - OCULAR INSTR INC [US]
- [Y] US 2013103145 A1 20130425 - JOHN STEVEN [US], et al
- [X] US 2012283557 A1 20121108 - BERLIN MICHAEL S [US]
- [X] WO 2009145842 A2 20091203 - FORSIGHT LABS LLC [US], et al
- See references of WO 2017189708A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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